

Chapter

- Studies → trying to find a cause-and-effect relationship between several things

- Observational

- Researchers look at data instead of assigning

- Two types:

1. Retrospective → look at past data

2. Prospective → look at events as they unfold

- It is NOT possible for observational studies to show cause-and-effect relationships

- Experiment
 - Use these to establish a cause-and-effect relationship
 - Requires random assignment to have any hope of a fair and meaningful conclusion
 - At least one explanatory variable, called a factor
 - At least one response variable
 - Individuals in an experiment are subjects or participants or
(humans) experimental units (not humans)
 - Levels → values experimenter chooses for factor
 - Treatment → combination of all levels from all factors of an experiment